

STATE BOARD OF HEALTH

INDIANAPOLIS

3  
1B1

OFFICE MEMORANDUM

DATE: February 12, 1981

TO: Windsor Plastics File

THRU:

FROM: ✓ J. Hunsicker *gmc 2/16/81*

SUBJECT: To Look at Waste Stream Generated From  
Distillation and Steam Stripping of Solvent  
and Paint Sludges for Which Windsor Plastic has  
Requested to Dispose Of

On December 12, 1980, I visited Windsor Plastic in Evansville to look at sludge waste stream generated by distillation and steam stripping of solvents and paints sludges. Mr. Richard Havens gave me a tour of the plant and discussed with me their request to dispose of sludge generated from the above mentioned process.

The sludge is composed of 90% still bottoms and 10% paint waste. Windsor Plastic generates approximately 5-7 drums of this sludge per week. The sludge is generated from reclaiming solvents from spent solvents and waste paints. The distillation process removes the largest percentage of the solvent. To remove any solvents left in the still bottoms, they are run through a steam stripping process (evaporation), which produces a finished sludge product which is very solid. Mr. Havens claimed the finished waste sludge product is 70-80% solid and 20-30% water. I checked several barrels of the sludge and they were all solid. Some had water standing in them from being stored outside uncovered but sludge was still solid.

Mr. Havens and I discussed why three of the samples that were analyzed showed large amounts of leachable lead. The company chemist and Mr. Havens felt this could have occurred because old paints containing lead were disposed of in those drums.

I recommended that Windsor Plastics apply to EPA to delist their sludge waste product. To delist they must show that the waste does not meet any of the criteria for listing a waste as a hazardous waste.

Mr. Havens requested approval to dispose of the still bottom sludge at the Four County Landfill in Fulton County. They hope to get the sludge delisted by EPA in the near future.

You also informed Messrs. Fitch and Rasor that you had disposed of approximately 600 drums of waste at a David Young Landfill on Old Chandler Road in Evansville. You were informed by Mr. Jim Hunsicker, formerly of our staff, that this was not a state-permitted site, but the waste had already been taken off-site for disposal. Mr. Young alleged that he operated a state-permitted site. Further investigation by you revealed that Mr. Young misrepresented himself. When asked if you would make a written statement on these matters, you declined and stated that you must contact your Company's counsel prior to making any written disposition.

Mr. Fitch was given a copy of Windsor Plastics' application for an Indiana Hazardous Waste Permit. In review of the material, Mr. Fitch found that it was missing a detailed closure plan. He asked you if you would send one in and you agreed to do so. Mr. Rasor asked if Windsor Plastics could conduct additional testings for EP Toxicity parameters cadmium and chromium on their paint waste. You agreed to have this done also. If there are any questions concerning any of the above matters, please contact Mr. P. J. Rasor or Mr. J. T. Fitch at 317/633-0176.

Very truly yours,

Ralph C. Pickard  
Technical Secretary

JTF/tw  
cc: Browning-Ferris Industries  
Attn.: Mr. Harold Post  
U.S. EPA  
Attn.: Mr. Richard Shandross  
bcc: Mr. Steve Poe  
Mr. P. J. Rasor  
tw 2348m 6/15/82

**CROBAUGH DIVISION**  
 ORGANIC AND ORGANIC ANALYSIS  
 5405 E. SCHAAF RD.  
 CLEVELAND, OH 44131  
 (216) 524-1450

**RECEIVED**

NOV 3 1980

Ltr. dtd.  
 Purchase Order No. 9-15-80 via F  
 File No. C 2946  
October 31, 1980

WINDSOR PLASTICS

Analysis of Six Samples, Paint Sludge  
 marked Steam #1 Dried, 2, 3, 4, 5 and Dry Baked

Client Windsor Plastics  
Stockwell Industrial Park  
601 N. Congress Avenue  
Evansville, Indiana 47715  
 Attn: Mr. Robert W. Carpenter  
Product Development  
 Received on 9-15-80

Our File No. Sample	ANALYSIS					
	C 2946-1 #1	C 2946-2 #2	C 2946-3 #3	C 2946-4 #4	C 2946-5 #5	C 2946-6 Dry Baked
% Ash	58.20%	4.14%	50.42%	57.81%	22.55%	170.07%
S. Q. on Ash	Semi Quantitative analyses attached.					
Moisture	1.12%	5.16%	17.95%	6.31%	4.35%	9.13%
pH of H <sub>2</sub> O Extract	7.70	7.49	7.49	5.18	6.75	6.10
% H <sub>2</sub> O	0.98%	0.21%	1.01%	0.13%	0.17%	0.37%
Cyanide	<0.2 mg/l	<0.2 mg/l	<0.2 mg/l	<0.2 mg/l	<0.2 mg/l	<0.2 mg/l 2K
Flammability	Does not burn in bunsen burner.	Chars with match. Burns in bunsen burner. No flash point obtain- able. Vapors blew closed cup apparatus flame out at 68° C	Does not burn in bunsen burner.	Does not burn in bunsen burner.	Burns with a match. Solid mass impossible to run flash point with a thermometer.	Burns with a match. Solid mass impossible to flash point with a thermometer.



EPA TOXICITY TEST

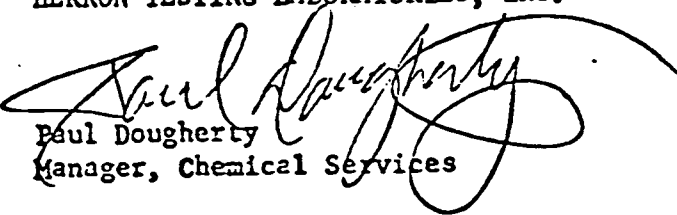
Sample No. Sample	C 2946-1 #1	C 2946-2 #2	C 2946-3 #3	C 2946-4 #4	C 2946-5 #5	C 2946-6 Dry Baked
Mercury	1.1	0.40	0.73	3.8	0.74	0.24
Arsenic	<0.001	0.026	<0.001	0.001	<0.001	<0.001
Selenium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium	0.02	0.06	<0.02	1.4	1.5	0.02
Cadmium	0.03	<0.02	0.03	0.02	0.03	<0.02
Lead	3.5	0.20	1.0	13	8.4	0.08
Silver	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Antimony	0.007	<0.005	<0.006	0.017	<0.005	0.014
Zinc	0.92	4.0	0.35	1.1	0.27	0.19
Nickel	0.03	0.03	0.04	0.22	<0.02	<0.02

Above results in milligrams/liter.

NOTE: Mercury values on leachates to follow.

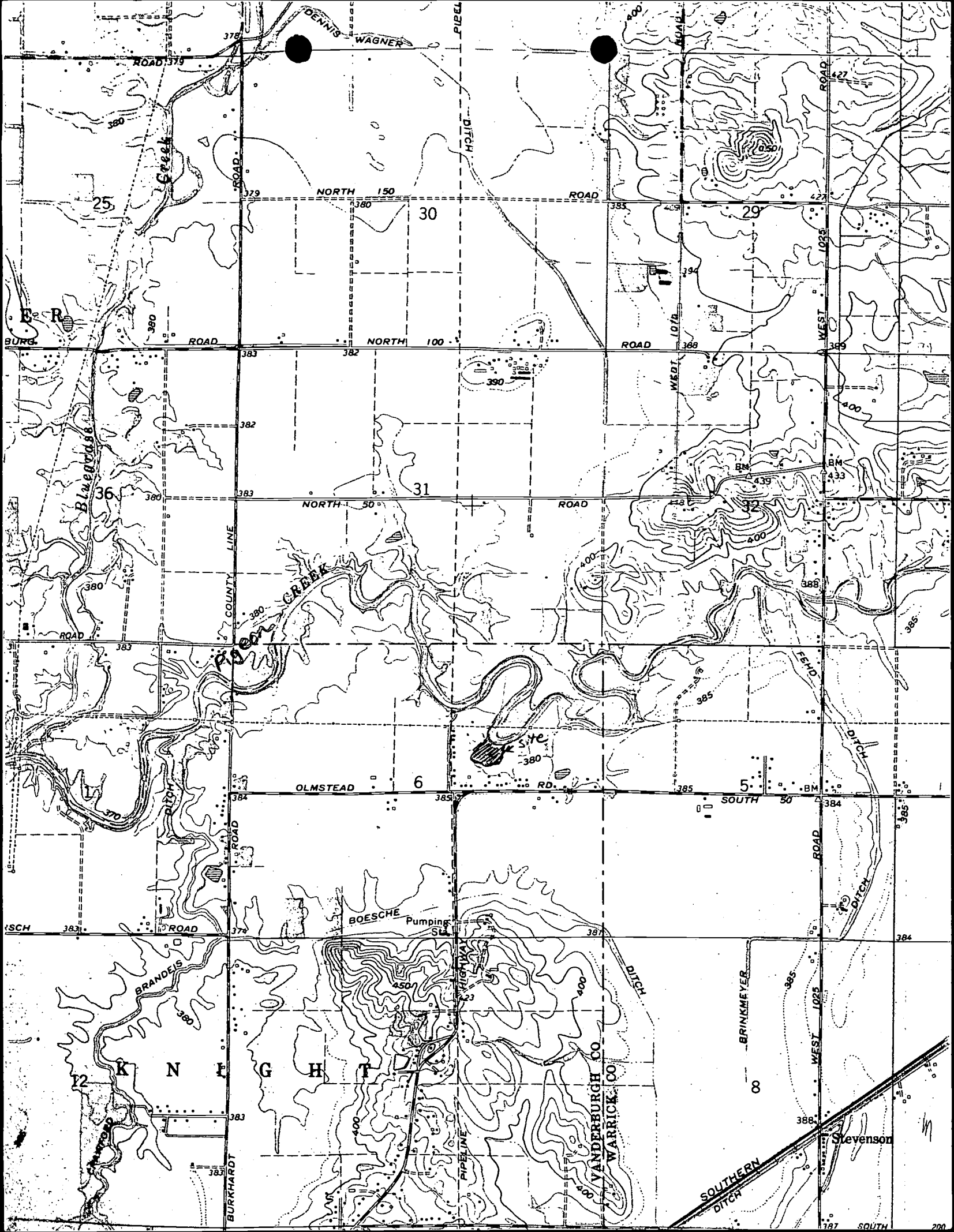
Respectfully submitted,

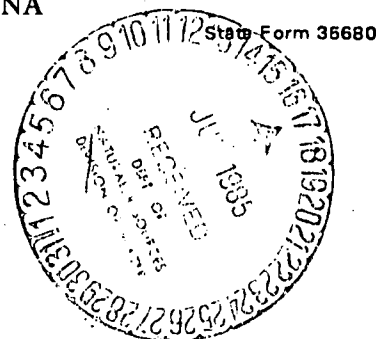
CROBAUGH DIVISION  
HERRON TESTING LABORATORIES, INC.

  
Paul Dougherty  
Manager, Chemical Services

mam







## WATER WELL RECORD

### WELL LOCATION

(Fill in completely - Refer to instruction sheet)

County in which well was drilled Wand Civil Township \_\_\_\_\_  
Driving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

On Old Bearville Hwy, 1/2 mile east of Christian road, 1/4 mile west of the Wand county line. It is a large farm house on the south side of the road.

### NAME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Dan Stock Address \_\_\_\_\_

Building Contractor \_\_\_\_\_ Address \_\_\_\_\_

Name of Well Drilling Contractor: Richardville Drilling

Address 621 S Boche Camp Rd Bearville 42112

Name of Drilling Equipment Operator: Gary Richardville

### WELL INFORMATION

Depth of well: 127 ft Date well was completed: April 11/1985

Diameter of casing or drive pipe: 6 in PVC Total Length: 61 ft

Diameter of liner (if used): \_\_\_\_\_ Total Length: \_\_\_\_\_

Diameter of Screen: \_\_\_\_\_ Length: \_\_\_\_\_ Slot Size: \_\_\_\_\_

Type of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other \_\_\_\_\_

Use of Well: For Home ☒ For Industry ☐ For Public Supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

Static water level in completed well (Distance from ground to water level) 20 feet

Bailer Test: Hours Tested \_\_\_\_\_ Rate 8 g.p.m. Drawdown 127 ft. (Drawdown is the difference between static level and water level at end of test)

Pumping Test: Hours Tested \_\_\_\_\_ Rate \_\_\_\_\_ g.p.m. Drawdown \_\_\_\_\_ ft.

Signature Gary Richardville  
Date May 3/85



# WATER WELL LOG

[illegible]

DIVISION OF WATER  
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA  
STATE OFFICE BUILDING  
INDIANAPOLIS, INDIANA 46204  
Telephone 633-5267 Area Code 317

State Form 35680

## WATER WELL RECORD

### WELL LOCATION

(Fill in completely - Refer to instruction sheet)

County in which well was drilled Warr Civil Township Knights  
Driving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

at the corner of Old Boonville Hwy & Olmstead Rd

### NAME OF WELL OWNER and/or BUILDING CONTRACTOR

Well Owner Rosamoy Greenhaw Address Old Boonville Hwy  
Building Contractor — Address 17712 Olmstead Rd

Name of Well Drilling Contractor: Richardville Drilling  
Address 621 S Beech Rd Evansville 47712

Name of Drilling Equipment Operator: Gay Richardville

### WELL INFORMATION

Depth of well: 192 ft Date well was completed: July 22/82

Diameter of casing or drive pipe: 6 in Plastic Total Length: 75 ft

Diameter of liner (if used): 4 1/2 in plastic Total Length: 120 ft

Diameter of Screen: — Length: — Slot Size: —

Type of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other —

Use of Well: For Home ☒ For Industry ☐ For Public Supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

Static water level in completed well (Distance from ground to water level) 30 feet

Bailer Test: Hours Tested — Rate 1/2 g.p.m. Drawdown — ft.

Pumping Test: Hours Tested — Rate — g.p.m. Drawdown — ft.

(Drawdown is the difference between static level and water level at end of test)

Signature Gay Richardville  
Date Dec 27/82

DIVISION OF WATER  
DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA  
STATE OFFICE BUILDING  
INDIANAPOLIS, INDIANA 46204

State Form 35680

Telephone 317-232-4160

**WATER WELL RECORD**

**WELL LOCATION**

(Fill in completely - Refer to instruction sheet)

County in which well was drilled Wanderburg Civil Township

Driving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.

I-64 Structure Boring NW Sect 6  
Structure #8

Location Map Attached to Str. #1

**NAME OF WELL OWNER and/or BUILDING CONTRACTOR**

Well Owner Ind. Highway Dept Address

Building Contractor Address

Name of Well Drilling Contractor:

Address

Name of Drilling Equipment Operator:

**WELL INFORMATION**

Depth of well: 50' Soil Boring

Date well was completed: May 18, 1982

Diameter of casing or drive pipe: Total Length:

Diameter of liner (if used): Total Length:

Diameter of Screen: Length: Slot Size:

Type of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

Use of Well: For Home ☐ For Industry ☐ For Public Supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Bucket Rig ☐

Static water level in completed well (Distance from ground to water level) feet

Bailer Test: Hours Tested Rate g.p.m. Drawdown ft.

(Drawdown is the difference between static level and water level at end of test)

Pumping Test: Hours Tested Rate g.p.m. Drawdown ft.

Signature J.E. Burt

Date Aug. 23, 1984

**FOR ADMINISTRATIVE USE ONLY**  
**(Well driller does not fill out)**

[illegible]



# WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)

From

To

COUNTY: Franklin TWP. 35 RGE. 76 3 36 SEC. 8  
 Topo Map: Geological 7 1/2  
 Well log classified By WJH Date 1/1/80  
 Courthouse located By WJH Date 1/1/80  
 Field located By WJH Date 1/1/80  
 Acc. w/o verification By WJH Date 1/1/80

FOR ADMINISTRATIVE USE ONLY  
 (Well driller does not fill out)

Ft W of EL. Ground elevation 325'  
 Ft N of SL. Depth to bedrock 75'  
 Ft E of WL. Bedrock elevation 310'  
 Ft S of NL. Aquifer elevation 310'

verified by owner

REMARKS:

## INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. Please include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation.



DIVISION OF WATER RESOURCES  
INDIANA DEPARTMENT OF CONSERVATION  
609 STATE OFFICE BUILDING  
INDIANAPOLIS 9, INDIANA



WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Vanderburgh Civil Township: Traight

Congressional township: \_\_\_\_\_ Range: \_\_\_\_\_ Number of section: \_\_\_\_\_

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: at North End of Burkhardt Rd.  
North of Boonville Hy,  
Range line 10/9

Name of owner: Christeal Address: Boonville

Name of Well Drilling Contractor: Charles Richardville

Address: 621 South Boonville Camp Rd

Name of Drilling Equipment Operator: Louis

INFORMATION ON THE WELL

Completed depth of well: 145 ft. Date well was completed: June 20-1965

Diameter of outside casing or drive pipe: 6 1/4 Length: 112

Diameter of inside casing or liner: \_\_\_\_\_ Length: \_\_\_\_\_

Diameter of Screen: \_\_\_\_\_ Length: \_\_\_\_\_ Slot size: \_\_\_\_\_

Type of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other \_\_\_\_\_

Use of Well: For home ☒ For industry ☐ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☒ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) \_\_\_\_\_ ft.

Bailer Test: Hours tested \_\_\_\_\_ Rate 2 g.p.m. Drawdown \_\_\_\_\_ ft. (Difference between

Pumping Test: Hours tested \_\_\_\_\_ Rate \_\_\_\_\_ g.p.m. Drawdown \_\_\_\_\_ ft. static level and water level at end of test)

Signature Charles Richardville

Date July 2-1965